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The Royal Society of London

PHILOSOPHICAL TRANSACTIONS

Volume 14
1684

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The Royal Society of London*

JOHNSON REPRINT
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KRAUS REPRINT
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NEW YORK
1963

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PHILOSOPHICAL Transactions.

GIVING SOME
ACCOMPT
OF THE

Present Undertakings, Studies, and Labours,
OF THE

INGENIOUS
IN MANY

Considerable Parts

OF THE

WORLD.

VOL. XIV.

For the Year of our Lord, M.DC.LXXXIV.

OXFORD,

Printed at the *THEATER*, and are to be sold by *Moses Pitt* at the *Angel*, and *Samuel Smith* at the *Princes Arms* in *St. Pauls Church-yard London.* 1684.

To the Illustrious Prince
H E N R Y
D U K E O F
N O R F O L K,
E A R L O F
Arundel, Surrey, and Norwich,
E A R L
M A R S H A L L
O F
E N G L A N D, &c.

May it please your Grace,

THe exemplary Munificence of your illustrious FATHER, to the Royal Society of London; and the great favours your Grace has always shewn them; give me confidence to offer to your Grace these small Tracts; an imperfect Specimen of what has been brought into that Society
this

*this last year; partly by their own Members,
partly by their constant Correspondence with
the Philosophical Societies of Oxford
and Dublin: which is humbly laid at your
Graces feet, to shew, that the Royal So-
ciety ha's not been negligent in prosecuting
those Studies, your Grace is pleased to pro-
mote; and to testify the duty of*

Y O U R

Grace's most obliged

and

most humble Servant

ROB. PLOT S.R.S.

PHILOSOPHICAL

TRANSACTIONS.

Feb. 20. 1683.

The CONTENTS.

- 1 *An introductory Essay to the Doctrine of Sounds containing some proposals for the improvement of Acousticks, as it was presented to the Society of Dublin Nov. 12. 1683. by the Right Reverend Father in God Narcissus Lord Bishop of Ferns and Leighlin.*
- 2 *Certain observations of the Midland Salt-Springs, in Worcester-shire, Stafford-shire and Cheshire. Of the crude Salt which grows from the Stone-powder dejected by the said Brines in Boyling. Of the specific difference betwixt Sea-salt and Common-salt. A way (which seems to be the true Method of Nature) of distilling Sweet and Fresh-water from Sea-water, by the breath of Sea-plants growing in it. That this breath probably is the material cause of the Trade or Tropic-winds. By the learned Martin Lister Dr. of Physick of the University of Oxon.*
- 3 *An Account of the increase of weight in Oyl of Vitriol exposed to the Air. In a Letter to the Publisher from William Gould M. B. and Fellow of Wadham College Oxon. An account of a book intitled Riecreatione Dell' occhio è della mente nell' Osservation' delle Chiocciolè, &c. Dal P. FILIPPO BUONANNI in Roma per il Varese. 1681. in Quarto.*

PHILOSOPHICAL

TRANSACTIONS.

March 20. 1683.

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- 1 *Of the nature of Earth-quakes. More particularly of the Origin of the matter of them, from the Pyrites alone.*
2. *Concerning the spontaneous firing of the Pyrites.* 3 *Concerning Thunder and Lightning, proceeding from the Pyrites, all by Martin Lyster M. D. of the University of Oxon. and Fellow of the Royal Society.* 4. *A Relation of the effect of a Thunder-Clap on the compass of a Ship on the Coast of New-England.* 5 *A Letter of Sir R. S. concerning the former Relation.* 6 *An abstract of a Treatise of the Calculus Humanus in answer to several Queries proposed by the Right Worshipful Sir John Hoskins Knight; By the Learned and Ingenious Fred. Slare Med. Dr. and Fellow of the Royal Society.* 7 *A Postscript to the Publisher, containing a short account of two Human Calculi of an unusual form and bigness, from the same F. S. M. D.* 8 *An account of a Polypus found in the heart of a person that died Epileptical, at Oxon. by W. G. M. B. fellow of Wadham Colledge and of the Royal Society. An account of a Book, viz. The Geometrical Key, or the Geometry of all Equations Linear, Quadratick, Cubick and Biquadratick, by a Circle and one only Parabole; by Mr. THO: BAKER, Rector of Bishop Nympton in Devonshire.*

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April 20. 1684.

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1. *A Letter from the Learned and Ingenious Mr. Will. Molyneux Secretary to the Society of Dublin, to Will. Mufgrave L. L. B. Fellow of New Coll. and Secretary to the Philosophical Society of Oxford for advancement of natural Knowledge; concerning Lough Neagh in Ireland, and its petrifying Qualities.*
2. *A Letter from Mr. Thom. Machell of Kirkbythore in Westmorland to Sr. W. D. March 25. 1684. concerning some Antiquities found there.*
3. *An Abstract of a Letter from the worshipful and learned John Evelyn Esq; to one of the Secretaries of the R. Society, concerning the damage done to his Gardens by the preceding winter.*
4. *A conjecture about an under Current at the Streights Mouth, by the Reverend and Learned Tho. Smith D. D. Fellow of Magd. Col. Oxon. and of the R. Society,*
5. *The Longitudes, Latitudes, right Ascensions, and Declinations of the chiefest fixt Stars according to the best Observers; in a Letter from Mr. Edward Bernard, to the reverend and learned Rob. Huntington S. T. P. Provost of Trinity College near Dublin in Ireland.*
6. *An Abstract of a Letter from Leige concerning a strange preservation of four Men in a Mine*

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June 20. 1684.

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- I. *A Letter from Mr. T. Robinson to Dr. M. L. concerning the Bridge at St. Esprit in France.* 2. *An Abstract of a Letter from Mr A. Leewenhoeck of Delft concerning Scales within the Mouth, the Scaly Child that was shewn, the Anatomy of the Slime within the Guts; and the use thereof.* 3. *Two Letters formerly written to Mr. H. O, by Dr. M. L. 1st. concerning some very Aged Persons in the North of England. 2d. about the Projection of the Threads of Spiders, of Bees breeding in Cases made of Leaves, of a Viviparous Fly, and of great numbers of Maggots observed at the time of the Plague, A. D. 1666.* 4. *A description of a monstrous Child.* 5. *A Letter from the learned Malpighius to Dr. Spon, concerning a Horn hanging at the neck of an Ox; as also concerning a Kidney of an unusual Shape and Texture, taken out of the body of a Man; together with some Observations concerning Horns and Glandules in general.* 6. *A Letter from Mr. Charles Leigh of Brazen-Nose College in Oxon. to the Publisher of these Tracts concerning some Experiments and Observations about the Natrôn of Egypt, and the Nitrian Water. An Account of a Book, Tuta ac efficax LVIS VENEREÆ, sæpe absque Mercurio, ac semper absque Salivatione Mercuriali, curandæ methodus. Authore Davide Abercromby M. D. Lond. in Octav. 1684.*

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A Let-

PHILOSOPHICAL

TRANSACTIONS.

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PHILOSOPHICAL TRANSACTIONS.

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1. *A new and easy way of demonstrating some propositions in Euclid by the learned Mr. ----- Ash, a Member of the Philosophical Society of Dublin for promoting natural knowledge.*
 2. *An account of the course of the Tides at Tonqueen in a Letter from Mr. Francis Davenport July 15. 1678. with a Theory of them at the Bar of Tonqueen, by the learned Edmund Halley Fellow of the Royal Society.*
 3. *Observations of the small Lunar Eclips Jun. 16. 1684. p. m. n. Seq. at Greenwich by the learned John Flamsteed Math. Reg.*
 4. *Observations of the Solar Eclips Jul. 2. 1684. at the same place, by the same worthy person.*
 5. *A calculation of the same Eclips, juxta Tabulas Philolaicas with the observations of the learned Bullialdus and Cassini,*
 6. *A Discourse concerning Digestion in a Letter to the Publisher from Mr. Charles Leigh of Brasen-Nose College Oxford.*
 7. *An abstract of the Journal of the Philosophical Society of Oxford, being an account of some Experiments relating to Digestion read before that Society, and of a large bed of Glands observ'd in the Stomach of a Jack.*
- An account of two Books*
- I. *Experiments and Considerations about the POROSITY of BODIES, in two Essays by the Honourable Robert Boyle Esq; Fellow of the Royal Society Lond. in 8° 1684.*
 - II. *Joh. Dolæi M. D. Consilarii ac Archiatri Hasso-Cassellani ENCYCLOPÆDIA MEDICINÆ THEORETICO-PRACTICÆ, &c. Francofurti ad Mænum An. 1684. 4°.*

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nious Mr. Tankred Robinson, to Dr. Martin Lister.*
2. *A description of a Bridg that may be built 70 foot long
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the Philosophical Society of Oxford.*
3. *Observations
of the Eclips of the Sun on the 12 of July last (new style)
made at the Observatory at Paris 1684. in the lower a-
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at Lyons; at the Bay of Roses; at Honfleur; and at
Pau; by divers other learned Persons.*
4. *The Observa-
tions of the Ancients, concerning the Obliquitie of the Zo-
diac, in a Letter of Mr. Edward Bernard to Mr. John
Flamsteed Math. Reg. An account of a Salt Spring, and
another Medicinal Spring, on the banks of the River
Weare, or Ware in the Bishoprick of Durham in a Letter
to the Publisher, from the ingenious Mr. Hugh Todd
Fellow of University College in Oxon, and Chaplain to
the right Reverend Father in God ----- Lord Bishop of
Carlile.*

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TRANSACTIONS.

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PHILOSOPHICAL

TRANSACTIONS.

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PHILOSOPHICAL

TRANSACTIONS.

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1. *An extract of a Letter from the Reverend and learned Dr. John Wallis, President of the Philosophical Society of Oxford, to the Publisher, Dr. Robert Plot, concerning two very large Stone Chimneys, with a peculiar sort of Arch-work thereon.*
2. *Some Queries whereby to examine Mineral waters, by the learned Sr. William Petty Knight.*
3. *Solutio Philosophica Calus cujusdam rario-
ris à Cl. Domino Doctore Briggs, in Actis Philosophicis
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4. *A discourse concerning the Sepulchral Lamps of the
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vers waies, read before the Philosophical Society of Ox-
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5. *A Letter from
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are not White.*
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times of high-water at London Bridg for every day in
the year 1685. by John Flamsteed Math. Reg. and F.R.S.*
7. *An ingenious Retraction of the 7 and last Para-
graph of Mr. William Molyneux's Letter in the Philoso-
phical Transact. Numb. 158. p. 554. concerning Lough
Neagh Stone and its non application to the Magnet upon
calcination. Being an abstract of a Letter of the same
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